

TABLE 8

Worldwide, domestic, and foreign sales for companies located in the United States that performed or funded R&D, by industry and company size: 2019

(Millions of U.S. dollars)

Industry and company size	NAICS code	Sales					
		R&D performers or funders ^a			Domestic R&D performers ^b		
		Worldwide	Domestic	Foreign	Worldwide	Domestic	Foreign
All industries	21–23, 31–33, 42–81	14,897,629	11,180,864	3,716,765	14,253,081	10,627,588	3,625,493
Manufacturing industries	31–33	8,202,736	5,675,165	2,527,572	8,083,975	5,594,377	2,489,598
Food	311	778,392	561,592	216,800	777,972	561,172	216,800
Beverage and tobacco products	312	266,203	167,169	99,033	234,334	167,169	67,165
Textile, apparel, and leather products	313–16	93,677	64,883	28,795	93,330	64,536	28,795
Wood products	321	42,764	39,815	2,949	42,546	39,597	2,949
Paper	322	115,005	87,338	27,667	113,880	87,136	26,743
Printing and related support activities	323	68,259 i	58,316 i	9,943 i	68,259 i	58,316 i	9,943 i
Petroleum and coal products	324	503,166	286,579	216,587	503,166	286,579	216,587
Chemicals	325	1,602,955	1,161,526	441,429	1,600,810	1,159,765	441,045
Basic chemicals	3251	363,627	300,539	63,088	363,627	300,539	63,088
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	106,740	64,108	42,632	106,740	64,108	42,632
Pesticide, fertilizer, and other agricultural chemicals	3253	95,707	84,556	11,151	95,673	84,522	11,151
Pharmaceuticals and medicines	3254	733,143	536,020	197,122	732,059	534,959	197,100
Soap, cleaning compound, and toilet preparation	3256	201,274	112,889	88,385	201,274	112,889	88,385
Paint, coating, adhesive, and other chemicals	3255, 3259	102,464	63,413	39,051	101,437	62,747	38,690
Plastics and rubber products	326	257,562	200,238	57,324	256,084	198,761	57,324
Nonmetallic mineral products	327	71,067	55,132	15,935 i	60,062	46,046	14,016 i
Primary metals	331	151,020	123,828	27,193	149,813	122,620	27,193
Fabricated metal products	332	170,530	130,549	39,981	168,293	128,658	39,635
Machinery	333	567,290	363,337	203,952	565,719	362,718	203,001
Agricultural implement	33311	82,237	47,403	34,834	81,540	47,108	34,432
Semiconductor machinery	333242	44,310	24,680	19,629	44,310	24,680	19,629
Engine, turbine, and power transmission equipment	3336	65,642	36,617	29,025	65,642	36,617	29,025
Other machinery	other 333	375,101	254,637	120,464	374,226	254,312	119,914
Computer and electronic products	334	1,217,221	678,010	539,211	1,216,687	677,658	539,030
Communications equipment	3342	131,370	88,064	43,306	131,080	87,774	43,306
Semiconductor and other electronic components	3344	394,412	206,402	188,010	394,181	206,352	187,829
Navigational, measuring, electromedical, and control instruments	3345	271,168	183,042	88,127	271,162	183,035	88,127
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	51,965	29,901	22,064	51,958	29,894	22,064
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	106,313	76,145	30,169	106,313	76,145	30,169

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Other measuring and controlling device	other 3345	112,890	76,997	35,894	112,890	76,997	35,894
Other computer and electronic products	other 334	420,270	200,502	219,768	420,264	200,496	219,768
Electrical equipment, appliances, and components	335	219,868	142,538	77,330	219,805	142,474	77,330
Transportation equipment	336	1,519,757	1,164,905	354,852	1,455,556	1,102,104	353,452
Motor vehicles, bodies, trailers, and parts	3361–63	1,099,951	805,202	294,749	1,035,750	742,401	293,349
Aerospace products and parts	3364	323,341	280,327	43,014	323,341	280,327	43,014
Aircraft, aircraft engine, and aircraft parts	336411–13	314,711	271,821	42,889	314,711	271,821	42,889
Guided missile, space vehicle, and related parts	336414–15, 336419	8,630	8,506	125	8,630	8,506	125
Military armored vehicle, tank, and tank component	336992	963	963	0	963	963	0
Other transportation	other 336	95,502	78,412	17,089	95,502	78,412	17,089
Furniture and related products	337	45,381	40,782	4,599	45,314	40,715	4,599
Miscellaneous	339	512,620	348,628	163,991	512,344	348,353	163,991
Medical equipment and supplies	3391	354,397	245,191	109,206	354,122	244,916	109,206
Other miscellaneous manufacturing	3399	158,222	103,437	54,785	158,222	103,437	54,785
Nonmanufacturing industries	21–23, 42–81	6,694,893	5,505,700	1,189,193	6,169,106	5,033,211	1,135,895
Mining, quarrying, oil and gas extraction, and support activities	21	326,360	181,130	145,230	326,360	181,130	145,230
Utilities	22	324,549	317,985	6,564	257,178	250,615	6,564
Wholesale trade	42	132,106 i	125,430 i	6,677 i	127,821 i	122,212 i	5,609 i
Electronic shopping and electronic auctions	454111–12	270,483 - 428,858	270,484	0 - 158,373	270,483 - 428,858	270,484	0 - 158,373
Transportation and warehousing	48–49	369,527	281,963	87,564	369,014	281,466	87,548
Information	51	1,852,384	1,435,124	417,259	1,832,964	1,420,447	412,516
Publishing	511	285,932	187,092	98,841	284,966	186,130	98,836
Newspaper, periodical, book, and directory publishers	5111	1,116	1,089	27	1,054	1,027	27
Software publishers	5112	284,817	186,003	98,814	283,913	185,103	98,809
Telecommunications	517	530,754	510,517	20,237 i	529,508	509,272	20,236 i
Data processing, hosting, and related services	518	606,746	478,977	127,769	606,640	478,961	127,678
Other information	other 51	428,951	258,538	170,413	411,850	246,084	165,766
Finance and insurance	52	1,678,912	1,568,443	110,468	1,426,187	1,323,379	102,808
Real estate and rental and leasing	53	12,557	9,252	3,305	12,552	9,247	3,305
Lessors of nonfinancial intangible assets (except copyrighted works)	533	1,048	1,024	24	1,044	1,020	24
Other real estate and rental and leasing	other 53	11,509	8,228	3,281	11,509	8,228	3,281

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		Worldwide	Domestic	Foreign	Worldwide	Domestic	Foreign
Professional, scientific, and technical services	54	700,442	486,234	214,208	695,900	482,364	213,536
Architectural, engineering, and related services	5413	124,288	102,324	21,964	122,569	100,905	21,664
Computer systems design and related services	5415	335,408	197,389	138,018	333,200	195,512	137,688
Scientific research and development services	5417	98,632	81,094	17,539	98,314	80,775	17,539
Research and development in biotechnology	541711	35,636	31,250	4,386	35,612	31,226	4,386
Research and development in the physical, engineering, and life sciences (except biotechnology)	541712	61,710	48,646	13,064	61,440	48,375	13,064
Research and development in the social sciences and humanities	541720	1,287	1,199	88	1,262	1,174	88
Other professional, scientific, and technical services	other 54	142,114	105,428	36,686	141,817	105,172	36,645
Health care services	621–23	135,069	134,658	410	134,828	134,418	410
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	734,128 - 892,507	694,995	39,134 - 197,512	557,446 - 715,821	557,447	0 - 158,373
All companies (number of domestic employees)	–	14,897,629	11,180,864	3,716,765	14,253,081	10,627,588	3,625,493
Small companies							
10–19 ^c	–	22,697	22,272	426	22,225	21,822	403
20–49	–	114,158	108,914	5,244	111,381	107,012	4,369
Medium companies							
50–99	–	126,146	120,557	5,589	121,993	118,064	3,930
100–249	–	324,503	267,171	57,332	289,065	264,042	25,023
Large companies							
250–499	–	338,682	300,032	38,651	330,756	294,480	36,277
500–999	–	440,795	371,248	69,547	435,634	366,154	69,480
1,000–4,999	–	1,945,194	1,475,601	469,594	1,923,534	1,455,656	467,878
5,000–9,999	–	1,498,357	1,141,851	356,506	1,451,157	1,101,217	349,940
10,000–24,999	–	3,108,788	2,115,325	993,464	3,051,470	2,058,006	993,464
25,000 or more	–	6,978,308	5,257,895	1,720,413	6,515,865	4,841,134	1,674,731

i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2012 North American Industry Classification System.

^a Statistics are representative of companies located in the United States that performed or funded R&D.^b Statistics are representative of companies located in the United States that performed R&D.^c The Business Enterprise Research and Development Survey does not include companies with fewer than 10 domestic employees.

Note(s):

Domestic sales are the amount of sales that originated from domestic operations. Foreign sales are the amount of sales that originated from foreign operations. Detail may not add to total because of rounding. Industry classification is based on the dominant business code for domestic R&D performance, where available. For companies that did not report business codes, the classification used for sampling was assigned. Beginning in survey year 2018, statistics are representative of companies located in the United States that performed or funded \$50,000 or more of R&D. This change has affected the comparability of these estimates with estimates published for years prior to 2018. An estimate range may be displayed in place of a single estimate to avoid disclosing operations of individual companies.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey, 2019.